LOOPING STATEMENTS

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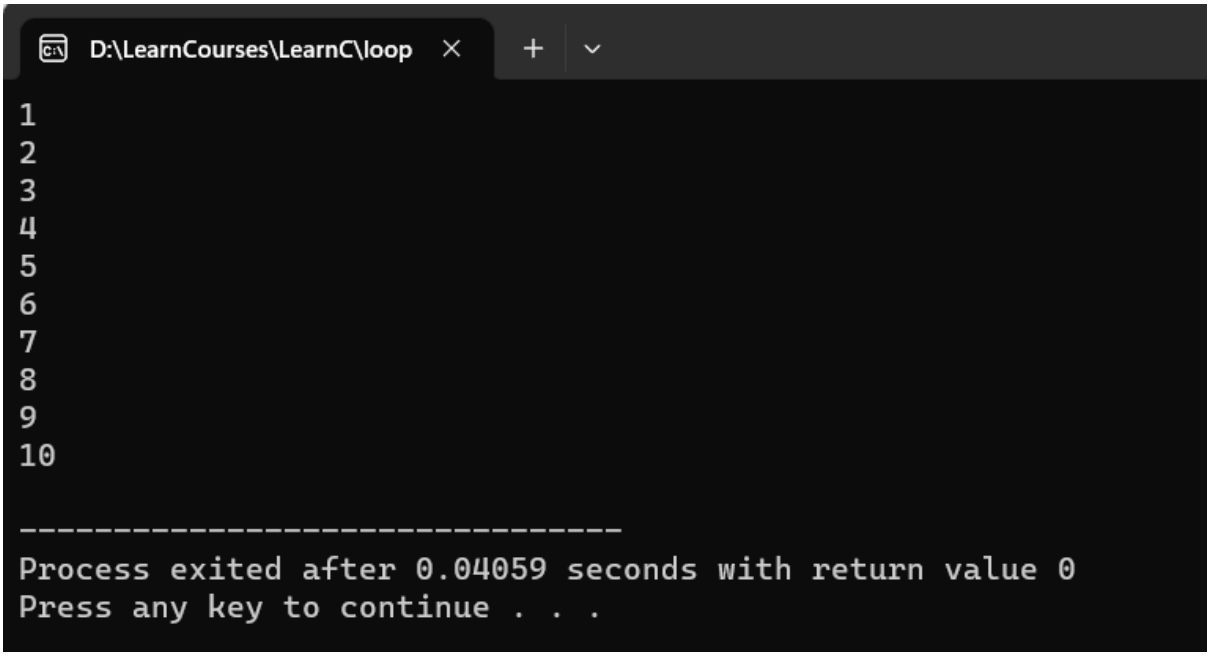
1. **Write C program to print 1 to 10 number.**

❖ **Code:**

```
#include<stdio.h>

int main() {

	int i;

	for (i=1; i<= 10; i++) {
		printf("%d\n", i);
	}

	return 0;
}
```

❖ **Output:**

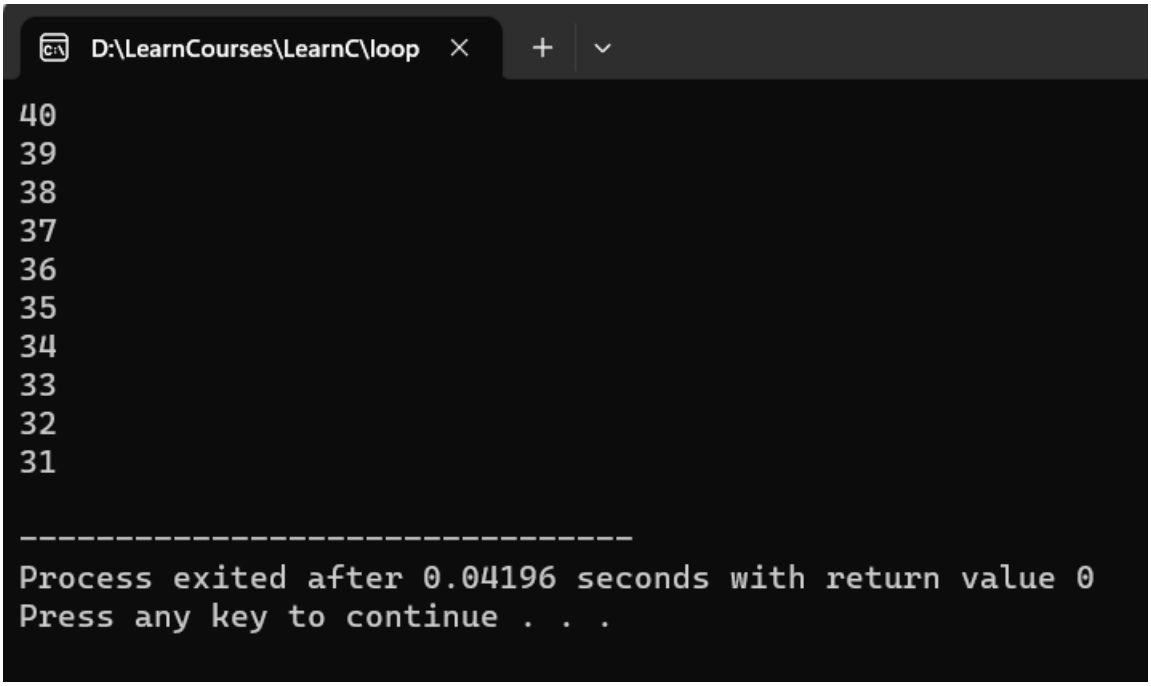


2. **Write C program to print 40 to 31 number.**

❖ **Code:**

```
#include<stdio.h>

int main() {

	int i;

	for (i=40; i>= 31; i--) {
		printf("%d\n", i);
	}

	return 0;
}
```

❖ **Output:**

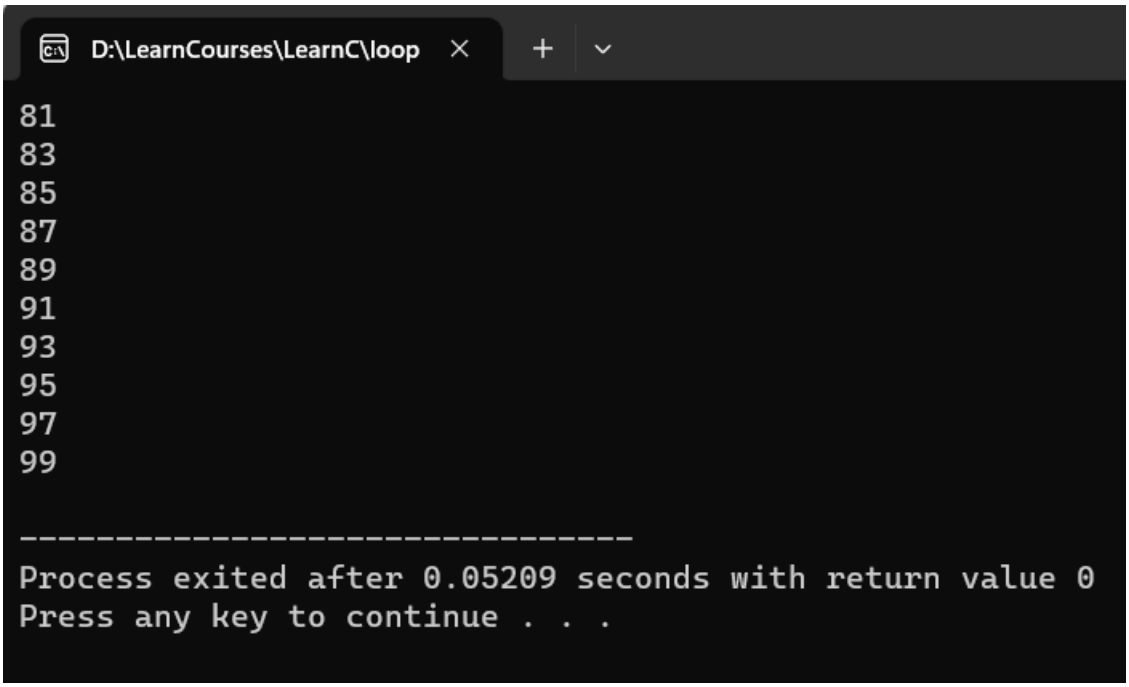


3. **Write C program to print odd number from 80 to 100.**

❖ **Code:**

```
#include<stdio.h>

int main() {

	int i;

	for (i=80; i<= 100; i++) {
		if (i % 2 == 1) {
			printf("%d\n", i);
		}
	}

	return 0;
}
```

❖ **Output:**

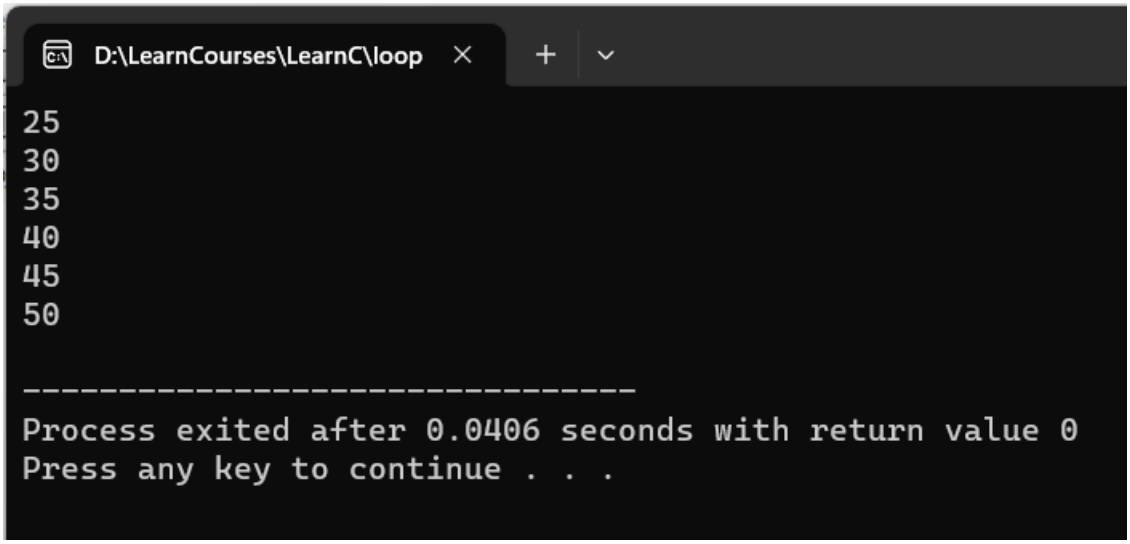


4. **Write C program to print number that are divisible by 5 from 25 to 50 number.**

❖ **Code:**

```
#include<stdio.h>
int main() {

	int i;

	for (i=25; i<= 50; i+=5) {
		printf("%d\n", i);
	}

	return 0;
}
```

❖ **Output:**

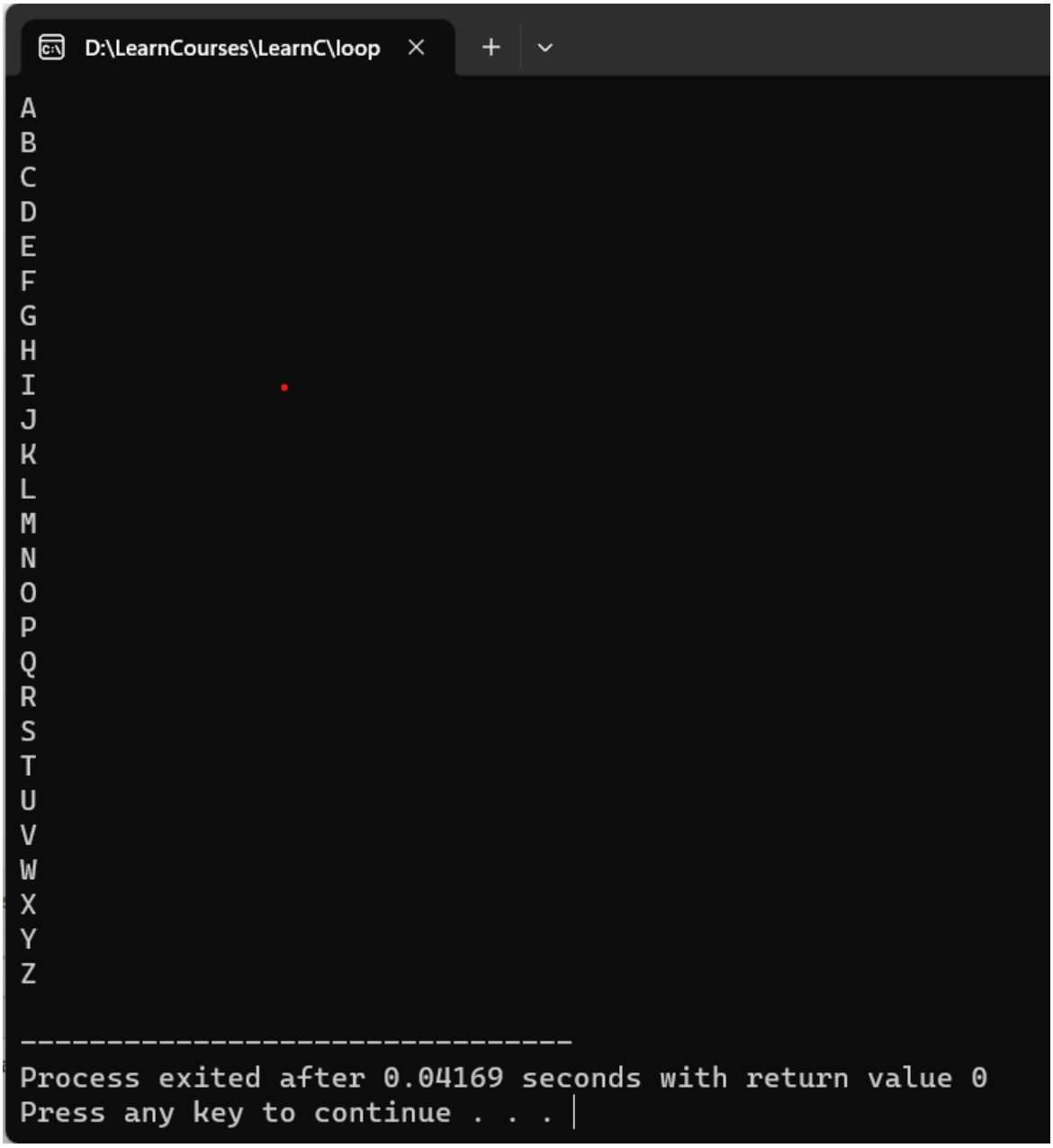


5. **Write C program to print to print A to Z character.**

❖ **Code:**

```
#include<stdio.h>

int main() {

        char i;

        for (i='A'; i<='Z'; i++) {
                printf("%c\n", i);
        }

        return 0;
}
```

❖ **Output:**


D:\LearnCourses\LearnC\loop
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

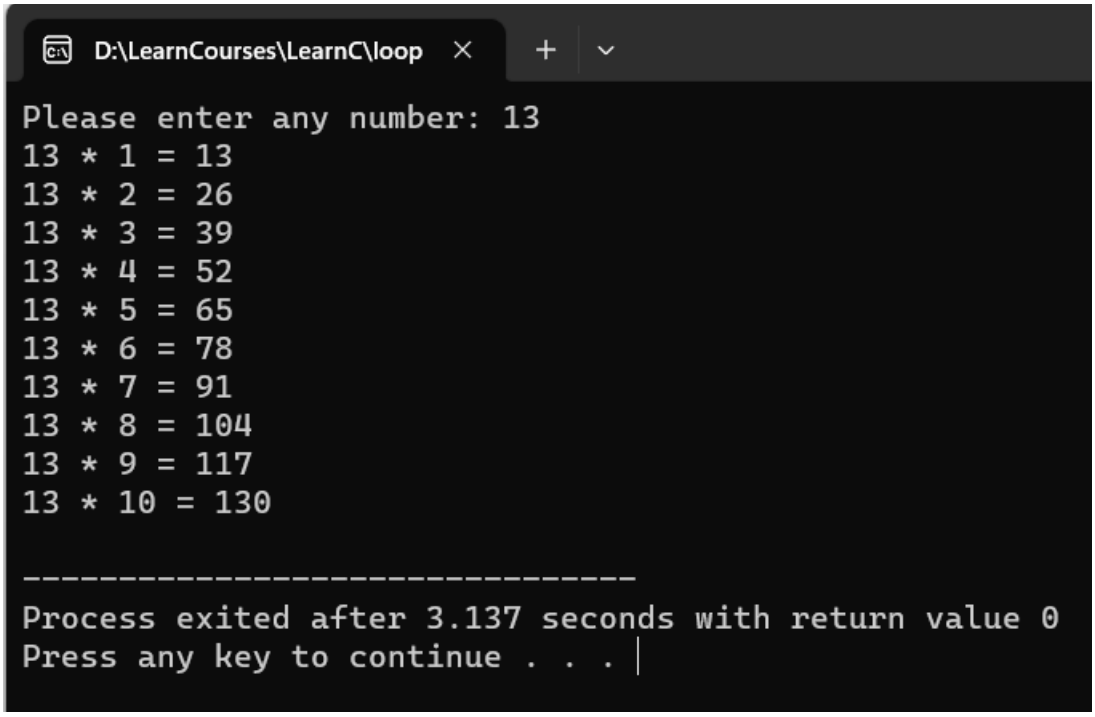
Process exited after 0.04169 seconds with return value 0
Press any key to continue . . .

6. **Write C program to print multiplication table of any number.**

❖ **Code:**

```
#include<stdio.h>

int main() {

	int i, num;

	printf("Please enter any number: ");
	scanf("%d", &num);

	for (i=1; i<=10; i++) {
		printf("%d * %d = %d\n", num, i, num*i);
	}

	return 0;
}
```

❖ **Output:**

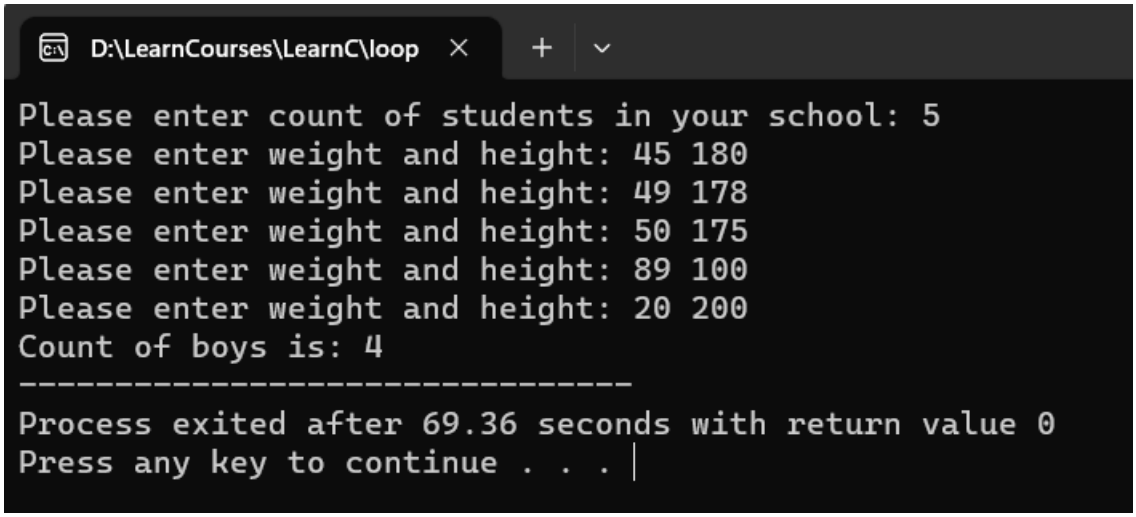


7. **Write C program to count number of boys whose weight is less than 50kg and height is greater than 170cm.**

❖ **Code:**

```
#include<stdio.h>
int main() {

	int i, count=0, students;
	float height, weight;

	printf("Please enter count of students in your school: ");
	scanf("%d", &students);

	for (i=1; i<=students; i++) {
		printf("Please enter weight and height: ");
		scanf("%f %f", &weight, &height);
		if (weight <= 50 && height >= 170) {
			count++;
		}
	}

	printf("Count of boys is: %d", count);
	return 0;
}
```

❖ **Output:**



8. **Write C program to find ratio of (a-b) and (c-d) of any three number. If c and d is equal than not to find ratio.**

- **Code:**

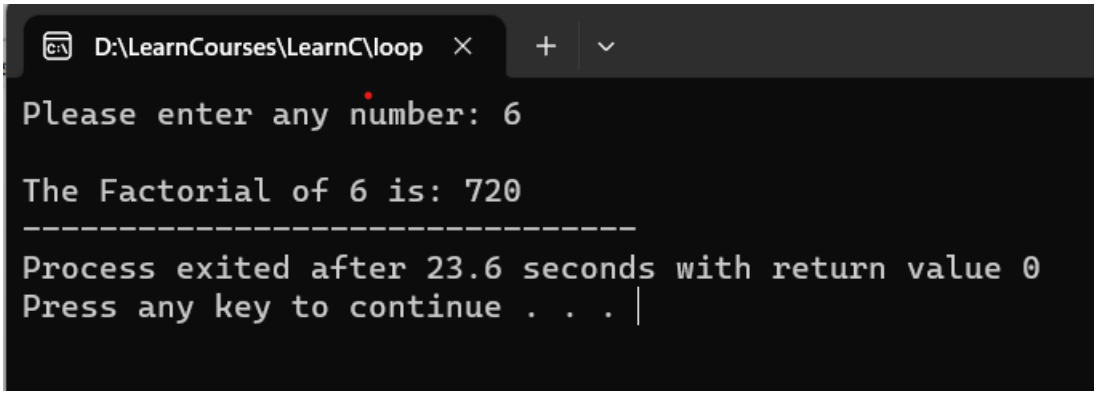
- **Output:**

9. **Write C program to calculate factorial of a number.**

❖ **Code:**

```
#include<stdio.h>
int main() {

	int i, num, factorial;

	printf("Please enter any number: ");
	scanf("%d", &num);

	for (i=1; i<=num; i++) {
		factorial = factorial*i;
	}
	printf("\nThe Factorial of %d is: %d", num, factorial);

	return 0;
}
```

❖ **Output:**

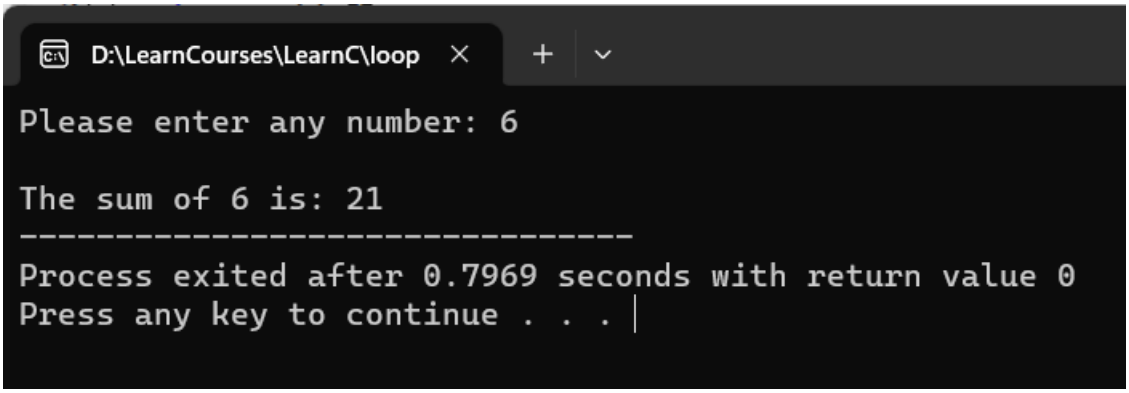


10. Write C program to give sum of n numbers.

❖ **Code:**

```
#include<stdio.h>
int main() {

	int i, num, sum=0;

	printf("Please enter any number: ");
	scanf("%d", &num);

	for (i=1; i<=num; i++) {
		sum = sum + i;
	}
	printf("\nThe sum of %d is: %d", num, sum);

	return 0;
}
```

❖ **Output:**



11. Write C program to give average of n numbers.

❖ **Code:**

```
#include<stdio.h>
int main() {
        int i, num;
        float avg;
        printf("Please enter any number: ");
        scanf("%d", &num);
        for (i=1; i<=num; i++) {
                avg = avg + i;
        }
        avg = avg / num;
        printf("\nThe sum of %d is: %f", num, avg);

        return 0;
}
```

❖ **Output:**